



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/CEMENT/2016-17

Date: 18.01.2017

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. Nagaraj Hosur, #133, 1 st Main, 14 th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of Work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 2 nd & 3 rd Main 1 st , 2 nd & 3 rd Cross Road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	:	Cement – Sample 2
Sample Received on	:	16.01.2017
Period of Testing	:	16.01.2017 to 18.01.2017



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.



VIDYARANI P.K.
Technical Manager

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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/SAND-Gradation/2016-17

18.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. Nagaraj Hosur, #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore - 560 073.
* Name of Work	: Improvements & Construction of CC road Bhuvaneshwarinagara 2nd & 3rd Main 1st, 2nd & 3rd Cross Road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	: Fine Aggregates - Sample 2
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 16.01.2017
Date of Testing	: 18.01.2017



Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.00	90-100	90-100	90-100	95-100
2.36	78.00	60-95	75-100	85-100	95-100
1.18	58.00	30-70	55-90	75-100	90-100
600 Micron	30.00	15-34	35-59	60-79	80-100
300 Micron	11.50	5-20	8-30	12-40	15-50
150 Micron	6.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/AGG/GR/2016-17

18.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. Nagaraj Hosur, #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore - 560 073.
* Name of Work	: Improvements & Construction of CC road Bhuvaneshwarinagara 2nd & 3rd Main 1st, 2nd & 3rd Cross Road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	: Coarse Aggregates (40mm) - Sample 2
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 16.01.2017
Date of Testing	: 18.01.2017



Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.60	95-100	85-100
20	34.60	30-70	0-20
10	14.00	10-35	0-5
4.75	3.70	0-5	-

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Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/NH/W.No.15/Steel/2016-17

19.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. Nagaraj Hosur, #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore - 560 073.
* Name of work	: Improvements & Construction of CC road Bhuvaneshwarinagara 2nd & 3rd Main 1st, 2nd & 3rd Cross Road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Samples ID	: 8mm Bar
Technical Reference	: IS: 1786-2008
Date of Testing	: 19.01.2017



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	512	13.05	O.K	O.K

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Job No.: CTCE/BBMP/NH/W.No.15/Steel/2016-17

19.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. Nagaraj Hosur, #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore - 560 073.
* Name of work	: Improvements & Construction of CC road Bhuvaneshwarinagara 2nd & 3rd Main 1st, 2nd & 3rd Cross Road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Samples ID	: 10 mm Bar
Technical Reference	: IS: 1786-2008
Date of Testing	: 19.01.2017



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	510	512	13.1	O.K	O.K

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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/Pre Slab/2016-17

13.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. Nagaraj Hosur, #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore - 560 073.
* Name of work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 2nd & 3rd Main 1st, 2nd & 3rd Cross Road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	:	Precast slab
* Grade of Concrete	:	M ₂₀
Technical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	09.02.2017
Date of Testing	:	13.02.2017



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	82.00	0.404	2509.21	1.64	0.961	32.60	16.60	17.93	18.66	23.32
2	50.00	83.00	0.410	2515.80	1.66	0.963	33.60	17.11	18.48	17.80	22.25
3	50.00	84.00	0.416	2522.23	1.68	0.965	31.95	16.27	17.57	16.97	21.21

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ಟೆಸ್ಟಿಂಗ್ ಲ್ಯಾಬ್-ಬೆಂಗಳೂರು
ಬೆಂಗಳೂರು, ದಿ. 13.02.2017

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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/Cube/2016-17

25.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. Nagaraj Hosur, #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore - 560 073.
* Name of the work	: Improvements & Construction of CC road Bhuvaneshwarinagara 2nd & 3rd Main 1st, 2nd & 3rd Cross Road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₃₀
Compressive Strength as on	: 28 th day
Sample Received on	: 25.02.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.01.2017	25.02.2017	8.163	710.3	31.57
2	28.01.2017	25.02.2017	8.255	725.6	32.25
3	28.01.2017	25.02.2017	8.372	732.5	32.56

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* Customer	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
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* Name of the work	: Improvements & Construction of CC road Bhuvaneshwarinagara 2nd & 3rd Main 1st , 2nd & 3rd Cross Road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₃₀
Compressive Strength as on	: 28 th day
Sample Received on	: 25.02.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.01.2017	25.02.2017	8.130	715.3	31.79
2	28.01.2017	25.02.2017	8.292	719.3	31.97
3	28.01.2017	25.02.2017	8.335	722.5	32.11

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
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* Reference	: BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₃₀
Compressive Strength as on	: 28 th day
Sample Received on	: 27.02.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	30.01.2017	27.02.2017	8.125	716.3	31.84
2	30.01.2017	27.02.2017	8.239	726.5	32.29
3	30.01.2017	27.02.2017	8.382	739.6	32.87

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T-2377

Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/Cube/2016-17

27.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. Nagaraj Hosur, #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
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* Reference	: BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₃₀
Compressive Strength as on	: 28 th day
Sample Received on	: 27.02.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	30.01.2017	27.02.2017	8.220	709.6	31.54
2	30.01.2017	27.02.2017	8.327	715.3	31.79
3	30.01.2017	27.02.2017	8.415	723.5	32.16

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/Cube/2016-17

28.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. Nagaraj Hosur, #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of the work	: Improvements & Construction of CC road Bhuvaneshwarinagara 2nd & 3rd Main 1st , 2nd & 3rd Cross Road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₃₀
Compressive Strength as on	: 28 th day
Sample Received on	: 28.02.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	31.01.2017	28.02.2017	8.138	710.3	31.57
2	31.01.2017	28.02.2017	8.266	728.5	32.38
3	31.01.2017	28.02.2017	8.399	746.3	33.17

*Information is furnished by the Customer/Representative.

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.



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 ಬೆಂಗಳೂರು-56, ಬೆಂಗಳೂರು
 ಬೆಂಗಳೂರು

VIDYARANI P.K.
 Technical Manager

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Sample Received on	: 28.02.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	31.01.2017	28.02.2017	8.205	713.5	31.71
2	31.01.2017	28.02.2017	8.327	723.5	32.16
3	31.01.2017	28.02.2017	8.406	735.8	32.70

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VISHWANATH. I.A.
Chief Executive Officer

(Signature)
Asst. Executive Engineer
Dasarahalli Sub Division
BBMP, Bangalore

(Signature)
28.02.17

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	31.01.2017	28.02.2017	8.128	718.3	31.92
2	31.01.2017	28.02.2017	8.295	726.5	32.29
3	31.01.2017	28.02.2017	8.335	740.3	32.90

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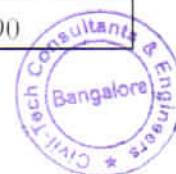
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2018

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VISHWANATH. I.A.
Chief Executive Officer



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